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ART SORB Material Safety Data Sheet

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Producer:

Fuji Silysia Chemical LTD
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1) Product Identification:

Synonyme: Silica, Amorphous; Silicic Acid; Amorphous Silicon Dioxide, Lithium Chloride

2) Composition/Information on Ingredients

Ingredient:	CAS No
Silica, Amorphous SiO ₂	7631.86.9
Lithium Chloride: LiCl	7447.41.8

3) Hazards Identification:

Emergency Overview:	Affects respiratory system, causes irritation to eyes
Potential Health Effects	
Inhalation:	May cause dryness and irritations to mucous membrane, nose and throat. Symptoms may include coughing, sore throat, dyspnea, wheezing, and non-specific chest illnesses
Ingestion	No adverse effects expected
Skin Contact	May cause irritation with dryness and abrasion
Eye Contact	Causes irritation, redness and pain

Chronic Exposure	Repeated exposure may cause symptoms similar to the effects on the above
Aggravation of Pre-existing Conditions	No information found

4) First Aid Measures:

Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	Give several glasses of water to dilute, If large amounts were swallowed, get medical advice.
Skin Contact	Wash exposed area with soap and water. Get medical advice if irritation develops
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately

5) Fire Fighting Measures:

Fire	Not considered to be a fire hazard
Explosion	Not considered to be an explosion hazard
Fire Extinguishing Media	Use any means suitable for extinguishing surrounding fire
Special Information	Use protective clothing and breathing equipment appropriate for the surrounding fire

6) Accidental Release Measures:

If its use requires manual handling, wear long sleeves and close-weave cotton gloves with tight-fitting wristlets.

If dusty conditions prevail, collect in an empty container with no dispersion, and wipe off, suck up under the place without a wind. Watch your step.

7) Handling and Storage:

Keep in a tightly closed container, stored in a cool, dry ventilated area. Protect against physical damage. Take precautions a static electric spark. Isolate from incompatible substances. Containers or this material may be hazardous when empty since they retain product residues(dust, solids); observe all warnings and precautions listed for this product.

8) Exposure Controls/Personal Protection

Airborne Exposure Limits:

Amorphous Silica:

OSHA Silica gel - PEL - 6mg/m³

ACGIH Threshold Limit Value (TLV): 10 mg/m³; TWA: inhalable particulate: 3 mg/m³ (TWA) respirable particulate

Lithium Chloride:

No OSHA vacated PELs are listed for this chemical

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details

Personal Respirators:

If its use requires manual handling, wear log sleeves and close-weave cotton gloves with tight-fitting wristlets. If dusty conditions prevail, use of an approved NIOSH / MSHA dust respirator is recommended. Wear goggles if dust causes eye discomfort.

Skin Protection:

Wear protective gloves and clean body-covering clothing

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area

9) Physical and Chemical Properties

Appearance	dry or humid, white bead
Odor	Odorless
Solubility	Silica gel: Insoluble; LiCl: soluble
Boiling Point	2230°C as a Silica Gel
Melting Point	1610°C as a Silica Gel

10) Stability and Reactivity

Stability	Stable under ordinary conditions of use and storage
Hazardous Decomposition Products	No information found
Hazardous Polymerization	Will not occur
Incompatibilities	Hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride and chlorine trifluoride
Conditions to Avoid	Heat, flame, ignition sources, dusting, moisture and incompatibilities

11) Toxicological Information

Animal Toxicology: No information found

Cancer Lists:

Ingredient	IARC Category
Silica, Amorphous (7631-86-9)	3

12) Ecological Information

Environmental Fate: No information found

Environment Toxicity: No information found

13) Disposal Consideration

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14) Transport Information

Not regulated

15) Regulatory Information:

U.S: Federal Regulation	TSCA 8 (b)inventory: SILICA GEL
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WHIMIS (Canada)	Not controlled under WHMIS (Canada) CEPA DSL: SILICA GEL
International Regulations	
EINECS	Silica Gel 231-545-4
DSCL (EEC)	R36/37/38. Irritating to eyes, respiratory system and skin
International Lists	Australia (NICNAS): Silica Gel Japan: (MITI): Silica Gel Korea(TCCL): Silica Gel China: No products found

16) Other Information

Fuji Silysia Chemical provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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